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a switching THT controlling a release of the stored charges of the storage capacitor to an external circuit for display of an image of the object, the switching TFT having a gate electrode, an insulating layer on the gate electrode, an active layer on the insulating layer, and dual layered source and drain electrodes that are comprised of first source and drain electrodes made from a transparent conductive material that is in contact with the active layer and second source and drain electrodes comprised of a metal material on the first source and drain electrodes; and an ohmic contact layer disposed between said active layer and said source electrode.

9. (Amended) An optical detecting sensor according to claim 1, wherein the metal

ial is a substantially non-transparent metal material.

10. (Amended) An optical detecting sensor according to claim 1, wherein the transparent conducting material and the metal material each contact the ohmic contact layer.

Please ADD new claims 15 -20.

A than film transistor (TFT) sensor, comprising: 15.

a sensor TFT having a gate electrode and spaced apart first and second sensor electrodes;

and

a switching TFT comprised of:

a gate electrode on a transparent substrate;

an insulating layer over the gate electrode;

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a sumiconductor layer on the insulating layer and adjacent the gate electrode,

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wherein the semiconductor layer includes an active layer and a contact layer;

spaced apart first and second switching electrodes on the semiconductor layer that define a channel region, wherein the second switching electrode electrically contacts the contact

layer; and

a storage capacitor having a first storage electrode and a second storage electrode, wherein the second storage electrode of the storage capacitor connects to the first sensor electrode and to the second switching electrode;

wherein the second switching electrode is a dual layer structure comprised of a transparent conducting layer that is in contact with said active layer and an opaque metal layer over said transparent conductive layer.

thin film transistor (TFT) sensor according to claim 15, wherein the transparent

ntacts the active layer. conducting laye

A thin film transistor (TFT) sensor according to claim 16, wherein the transparent

conducting layer contacts a side of the active layer.

A thin alm transistor (TFT), comprising:

a gate electrode on a substrate;

an insulating layer over the gate electrode;

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a semiconductor layer on the insulating layer and adjacent the gate electrode, wherein the semiconductor layer includes an active layer and a contact layer; and

spaced apara first and second electrodes that electrically contact the contact layer so as to define a channel region;

wherein the second electrode of the TFT is a dual layer structure comprised of a transparent conducting layer that electrically contacts the contact layer and of an opaque metal layer over the transparent conducting layer.

19. A thin film transistor (TFT) according to claim 15, wherein the transparent

conducting layer contacts the active layer.

20. A thin film transistor (TFT) according to claim 19, wherein the transparent conducting layer contacts a side of the active layer.